

WHAT IS CLAIMED IS:

1. An organic electroluminescent device comprising a hole injecting electrode, a hole injecting layer, a light emitting layer, and an electron injecting electrode in this order,

said device further comprising a thin film formed by plasma-treatment on a surface of said hole injecting layer on the side of said light emitting layer.

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2. The organic electroluminescent device according to claim 1, wherein said thin film is formed of a crystalline or non-crystalline material.

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3. The organic electroluminescent device according to claim 1, wherein said thin film is formed of a material selected from the group consisting of carbon based material, silicon based material, silicon carbide based material, and cadmium sulfide based material.

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4. The organic electroluminescent device according to claim 1, wherein said thin film is formed of halide.

5. The organic electroluminescent device according to claim 1, wherein said thin film is formed of carbon based halide.

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6. The organic electroluminescent device according to claim 1, wherein said thin film is formed of fluorocarbon.

5 7. The organic electroluminescent device according to claim 1, wherein said hole injecting layer is formed of a material selected from the group consisting of a phthalocyanine compound, porphyrin compound, amine based material, polyaniline based material, polythiophene based material, and
10 polypyrrole based material.

8. The organic electroluminescent device according to claim 1, wherein the thickness of said thin film is not less than 5 Å nor more than 50 Å.

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9. The organic electroluminescent device according to claim 1, wherein said thickness of said thin film is not less than 5 Å nor more than 12 Å.

20 10. The organic electroluminescent device according to claim 1, wherein said hole injecting layer is formed of copper phthalocyanine, and said thin film is formed of fluorocarbon.

11. A method of fabricating an organic
25 electroluminescent device, comprising the steps of:

forming a hole injecting layer on a hole injecting electrode;

plasma-treating an upper surface of said hole injecting layer;

5 forming sequentially a light emitting layer and an electron injecting electrode on said plasma-treated hole injecting layer.

12. The method of fabricating an organic
10 electroluminescent device according to claim 11, wherein

 said step of plasma-treating includes the step of forming a thin film on said hole injecting layer by plasma-treatment.

13. The method of fabricating an organic
15 electroluminescent device according to claim 12, wherein

 said step of plasma-treating includes the step of forming a thin film by plasma chemical vapor deposition.

14. The method of fabricating an organic
20 electroluminescent device according to claim 12, wherein

 said step of forming a thin film includes the step of forming a thin film composed of a crystalline or non-crystalline material.

25 15. The method of fabricating an organic

electroluminescent device according to claim 12, wherein

5 said step of forming a thin film includes the step of forming a thin film composed of a material selected from the group consisting of carbon based material, silicon based material, silicon carbide based material, and cadmium sulfide based material.

16. The method of fabricating an organic electroluminescent device according to claim 12, wherein

10 said step of forming a thin film includes the step of forming a thin film composed of halide.

17. The method of fabricating an organic electroluminescent device according to claim 11, wherein

15 said step of forming a hole injecting layer includes the step of forming said hole injecting layer of a material selected from the group consisting of a phthalocyanine compound, porphyrin compound, amine based material, polyaniline based material, polythiophene based material, and polypyrrole based material.

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18. The method of fabricating an organic electroluminescent device according to claim 12, wherein

25 said step of forming a hole injecting layer includes the step of forming said hole injecting layer of copper

phthalocyanine, and said step of forming a thin film comprises the step of forming said thin film of fluorocarbon.